



STIC Search Report

EIC 1700

STIC Database Tracking Number: EIC 1700

TO: Elizabeth Mulvaney
Location: REM 10B77
Art Unit : 1774
March 29, 2005

Case Serial Number: 10/651627

From: Usha Shrestha
Location: EIC 1700
REMSEN 4B28
Phone: 571/272-3519
usha.shrestha@uspto.gov

Search Notes

=> fil reg

FILE 'REGISTRY' ENTERED AT 16:06:46 ON 29 MAR 2005
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=> d his

FILE 'HCAPLUS' ENTERED AT 13:40:01 ON 29 MAR 2005

L1 0 S US20040137188/PN
L2 0 S US20040137188/PN,AP,PRN
L3 140 S LINDHOLM E?/AU
L4 45 S CINCOTTA L?/AU
L5 62 S MINNS R?/AU
L6 20 S TAKIFF L?/AU
L7 0 S L3 AND L4 AND L5 AND L6
L8 0 S L3 AND L4
L9 1 S L3 AND L6
L10 1 S L3 AND L5 AND L6
L11 0 S L4 AND L5 AND L6
L12 2 S L5 AND L6
L13 0 S L4 AND L6
L14 0 S L4 AND L5
L15 0 S L4 AND L1
L16 0 S L1 AND L5
L17 2 S L9 OR L10 OR L12
SEL RN

FILE 'REGISTRY' ENTERED AT 13:47:46 ON 29 MAR 2005

L18 21 S E1-E21

FILE 'LREGISTRY' ENTERED AT 13:54:08 ON 29 MAR 2005

L19 STR
L20 STR L19
L21 STR L20

FILE 'REGISTRY' ENTERED AT 14:05:29 ON 29 MAR 2005

L22 STR L19
L23 0 S L22
L24 0 S L22 FUL
L25 1 S 61-73-4/RN
E C16H18N4/MF
E C16H18N3/MF
L26 42 S E26
L27 567 S C16H18N4/MF
L28 24 S L26 AND 3/NR
E 116331-39-6/RN

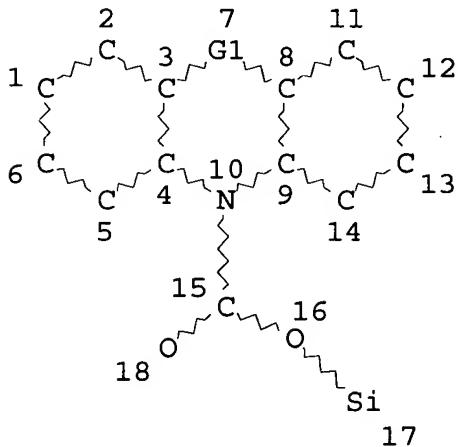
L29 1 S E3
 L30 347 S L27 AND 3/NR
 L31 0 S L30 AND PHENOAZ?
 L32 8 S L30 AND PHENAZ?
 L33 2 S L32 AND 2,8-PHENAZINEDIAMINE
 E 54668-98-3/RN
 L34 1 S E3

FILE 'HCAPLUS' ENTERED AT 15:52:44 ON 29 MAR 2005

L35 31 S L25/DP
 L36 0 S L29/DP
 L37 0 S L34/DP
 L38 2 S L35 AND (SILIC? OR SILAN? OR SI OR SILOXAN?)
 L39 3 S L35 AND (?SILIC? OR ?SILAN? OR SI OR ?SILOXAN?)
 L40 3 S L38 OR L39

FILE 'REGISTRY' ENTERED AT 16:06:46 ON 29 MAR 2005

=> d que stat 124
 L22 STR



VAR G1=O/S/SE/C/N

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L24 0 SEA FILE=REGISTRY SSS FUL L22

100.0% PROCESSED 372 ITERATIONS
SEARCH TIME: 00.00.01

0 ANSWERS

=> d que 135

L25 1 SEA FILE=REGISTRY ABB=ON PLU=ON 61-73-4/RN
L35 31 SEA FILE=HCAPLUS ABB=ON PLU=ON L25/DP

=> d que 136

L29 1 SEA FILE=REGISTRY ABB=ON PLU=ON 116331-39-6/RN
L36 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L29/DP

=> d que 137

L34 1 SEA FILE=REGISTRY ABB=ON PLU=ON 54668-98-3/RN
L37 0 SEA FILE=HCAPLUS ABB=ON PLU=ON L34/DP

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 16:07:35 ON 29 MAR 2005
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=> d 140 1-3 ibib abs hitstr hitind

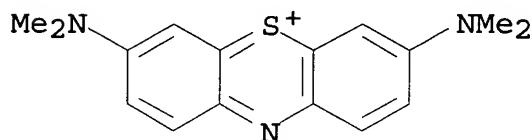
L40 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:459482 HCAPLUS
DOCUMENT NUMBER: 141:387788
TITLE: Preparation and photochromism of Keggin type heteropoly/methylene blue supermolecular compound
AUTHOR(S): Xu, Tian; Jin, Surong
CORPORATE SOURCE: School of Science, Wuhan University of Technology, Wuhan, 430070, Peop. Rep. China
SOURCE: Wuhan Ligong Daxue Xuebao (2003), 25(7), 28-30
PUBLISHER: CODEN: WLDXAV; ISSN: 1671-4431
DOCUMENT TYPE: Wuhan Ligong Daxue Jikanshe
LANGUAGE: Journal
AB A new photochromic compound was synthesized from heteropoly acid

(such as **silicotungstic** acid) and methylene blue and characterized by elemental anal., IR, and UV-VIS spectroscopy. The heteropolyanions with a Keggin structure was kept unchanged. Photochromism studies showed that the electron transfer took place from the organic mols. to the heteropolyanions.

IT 61-73-4DP, Methylene blue, compound with **silicotungstic** acid (preparation and photochromism of keggin type blue supermol.)

RN 61-73-4 HCPLUS

CN Phenothiazin-5-ium, 3,7-bis(dimethylamino)-, chloride (9CI) (CA INDEX NAME)



● Cl⁻

CC 78-8 (Inorganic Chemicals and Reactions)
 IT 61-73-4DP, Methylene blue, compound with **silicotungstic** acid 12027-38-2DP, **Silicotungstic** acid (H₄SiW₁₂O₄₀), compound with methylene blue (preparation and photochromism of keggin type blue supermol.)
 IT 61-73-4, Methylene blue 12027-38-2, **Silicotungstic** acid (H₄SiW₁₂O₄₀) (preparation and photochromism of keggin type blue supermol.)

L40 ANSWER 2 OF 3 HCPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2003:805904 HCPLUS
 DOCUMENT NUMBER: 139:308991
 TITLE: Inks for ink jet printers for light- and water-resistant images
 INVENTOR(S): Udagawa, Reiko
 PATENT ASSIGNEE(S): Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
	-----	-----	-----	-----
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	JP 2003292858	A2	20031015	JP 2002-134726

2002

0401

PRIORITY APPLN. INFO.:

JP 2002-134726

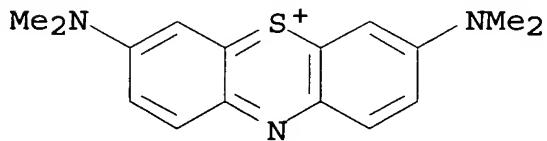
2002

0401

AB The inorg. ions of acid dyes and basic dyes are substituted with hydrophilic organic ions to give amphipathic dyes and mixed with **aminoalkoxysilanes**, butyral resins, water-soluble solvents, and additives to prepare inks. Thus, Auramine O, Rhodamine B, and methylene blue were treated with Na p-toluenesulfonate and used in yellow, magenta, and cyan inks, resp.
 IT 61-73-4DP, Methylene blue, reaction products with sodium toluenesulfonate
 (jet printing inks containing amphipathic dyes for light and water resistance)

RN 61-73-4 HCPLUS

CN Phenothiazin-5-i um, 3,7-bis(dimethylamino)-, chloride (9CI) (CA INDEX NAME)

● Cl⁻

IC ICM C09D011-00
 ICS B41J002-01; B41M005-00

CC 42-12 (Coatings, Inks, and Related Products)
 ST light water resistant jet ink amphipathic dye;
 aminoalkoxysilane butyral resin amphipathic dye ink
 IT **Silanes**
 (alkoxy, amino-; jet printing inks containing amphipathic
 dyes for
 light and water resistance)
 IT **Silanes**
 (amino, alkoxy; jet printing inks containing amphipathic dyes
 for
 light and water resistance)
 IT **61-73-4DP**, Methylene blue, reaction products with sodium
 toluenesulfonate 657-84-1DP, Sodium p-toluenesulfonate,
 reaction
 products with dyes
 (jet printing inks containing amphipathic dyes for light and
 water
 resistance)
 IT 87-18-3, p-tert-Butylphenyl salicylate 919-30-2, 3-
 Aminopropyltriethoxysilane
 (jet printing inks containing amphipathic dyes for light and
 water
 resistance)

L40 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
 ACCESSION NUMBER: 2001:50584 HCAPLUS
 DOCUMENT NUMBER: 134:117187
 TITLE: Nanocomposite coatings
 INVENTOR(S): Fischer, Hartmut Rudolf; Batenburg, Lawrence
 Fabian; Meinema, Harmen Anne; Hogerheide,
 Marinus Pieter; Rentrop, Cornelis Hermanus
 Arnoldus
 PATENT ASSIGNEE(S): Nederlandse Organisatie voor
 Toegepast-Natuurwetenschappelijk Onderzoek
 TNO, Neth.
 SOURCE: PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

DATE	PATENT NO.	KIND	DATE	APPLICATION NO.
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	WO 2001004050	A1	20010118	WO 2000-NL479

2000

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W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,
CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL,
TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE,
SN, TD, TG

NL 1012587 C2 20010116 NL 1999-1012587

1999

0713

NL 1013373 C2 20010424 NL 1999-1013373

1999

1022

EP 1194374 A1 20020410 EP 2000-946535

2000

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EP 1194374 B1 20031008
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE,
MC, PT, IE, SI, LT, LV, FI, RO
JP 2003504493 T2 20030204 JP 2001-509670

2000

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AT 251596 E 20031015 AT 2000-946535

2000

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ES 2200894 T3 20040316 ES 2000-946536

2000

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US 6815489

B1 20041109 US 2002-30285

2002

0513

PRIORITY APPLN. INFO.: NL 1999-1012587 A

1999

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NL 1999-1013373 A

1999

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WO 2000-NL479 W

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AB The invention relates to a method for preparing a composition for coating,

wherein a layered, inorg. filler is subjected to an ion exchange with a modifier, which modifier comprises at least two ionic groups, which groups are separated from each other by at least four

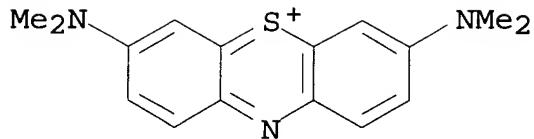
atoms, and wherein the modified filler, together with a polymer, is dispersed in a diluent. A typical coating composition was manufactured

by stirring 20 g EXM 757 clay with 6.1 g methylene blue 30 min at 60° in water and mixing 1.02 g modified clay with waterborne Neorez R986 (35% solids polyurethane-polycarbonate diol composition).

IT 61-73-4DP, Methylene blue, reaction products with clay (nanocomposite coatings containing ion-exchanged layered fillers)

RN 61-73-4 HCPLUS

CN Phenothiazin-5-ium, 3,7-bis(dimethylamino)-, chloride (9CI) (CA INDEX NAME)



● Cl^-

IC ICM C01B033-44

ICS C08K009-04; C08J003-20

CC 42-5 (Coatings, Inks, and Related Products)

IT Alkyd resins

Aminoplasts

Epoxy resins, uses

Phenolic resins, uses

Polyesters, uses

Polyethers, uses

Polyolefins

Polysiloxanes, uses

Polyurethanes, uses

(nanocomposite coatings containing ion-exchanged layered fillers)

IT 61-73-4DP, Methylene blue, reaction products with clay

321140-88-9DP, EXM 757, ion-exchanged with dyes

(nanocomposite coatings containing ion-exchanged layered fillers)

IT 84-86-6DP, 4-Amino-1-naphthalenesulfonic acid, reaction products with methylene blue, sodium aminoundecanoate, and layered clay 64667-38-5DP, reaction products with methylene blue, aminonaphthalenesulfonic acid, and layered clay 291537-33-2P, Aluminum tri-sec-butoxide-3-glycidyloxypropyltrimethoxysilane -methyltrimethoxysilane copolymer

(nanocomposite coatings containing ion-exchanged layered fillers)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS

AVAILABLE

IN THE RE FORMAT